

## Contents

Almeida, S. P., see Case, S. K., et al. . . . .	287
Anastasova, N. V., see Than, N., et al. . . . .	331
Anderson, W. A., Kim, J. K.: Reliability Studies on MIS Solar Cells . . . . .	401
Andreeff, A., see Brauer, G., et al. . . . .	421
Asakura, T., see Ohtsubo, J. . . . .	159
Balogh, A., see Brauer, G., et al. . . . .	421
Bangert, H., see Wagendristel, A., et al. . . . .	173
Baranov, V. Yu., Kazakov, S. A., Pis'menny, V. D., Starodubtsev, A. I., Velikhov, E. P., Gorokhov, Yu. A., Letokhov, V. S., Dyad'kin, A. P., Grasiuk, A. Z., Vasil'yev, B. I.: Multiwatt Optically Pumped Ammonia Laser Operation in the 12-13 $\mu\text{m}$ . . . . .	317
Baur, G., see Schad, Hp., et al. . . . .	177
Behler, K., see Schneider, W. . . . .	249
Bertolaccini, M., Bisi, A., Gambarini, G., Zappa, L.: Positrons Trapped in Polyethylene: Elec- tric Field Effect . . . . .	203
Bertolotti, M., see Vitali, G., et al. . . . .	111
Bisi, A., see Bertolaccini, M., et al. . . . .	203
Böhm, K., Gwinner, D.: Absence of Dislocation- Induced Luminescence in GaAs . . . . .	155
Brauer, G., Balogh, A., Andreeff, A.: Positron Lifetimes in $\text{V}_3\text{Si}$ . . . . .	421
Braun, H.: On Hall Voltage and Change of Con- ductivity in Transverse Magnetic Fields of Pressed $\text{PbO}_2$ Powder . . . . .	193
Bucher, E.: Solar Cell Materials and Their Basic Parameters . . . . .	1
Burov, J. I., see Than, N., et al. . . . .	331
Carman, T. W., Dyer, P. E.: Voltage-Current Characteristics of Superatmospheric Pressure $\text{CO}_2$ Laser Discharges . . . . .	27
Case, S. K., Almeida, S. P., Dallas, W. J., Fournier, J. M.: Real-Time Recognition of Microscopic Phase Objects . . . . .	287
Chen Li-chuan, Rabenau, A., Weppner, W.: One- Dimensional Ionic Conduction in Solid $\text{Ag}_2\text{Ti}_6\text{I}_{10}$ . . . . .	233
Courtney, C., Steen, W. M.: Measurement of the Diameter of a Laser Beam . . . . .	303
Dallas, W. J., see Case, S. K., et al. . . . .	287
Dehmelt, H. G., see Neuhauser, W., et al. . . . .	123
Deruytter, A., see Guyse, J. van, et al. . . . .	89
Dilmaghani, S. B., see Wagendristel, A., et al. . . . .	173
Dominguez, E., see Lora-Tamayo, A., et al. . . . .	79
Dyad'kin, A. P., see Baranov, V. Yu., et al. . . . .	317
Dyer, P. E., see Carman, T. W. . . . .	27
Finlayson, T. R., Khan, H. R.: The Superconduc- tivity and Metallurgy of C 15 Materials: Hf-V and Zr-V . . . . .	165
Fiorito, G., Gasparrini, G., Svelto, F.: Properties of Hg Implanted $\text{Hg}_{1-x}\text{Cd}_x\text{Te}$ Infrared Detectors . . . . .	105
Fischer, R., see Stert, V. . . . .	151
Foti, G., see Vitali, G., et al. . . . .	111
Fournier, J. M., see Case, S. K., et al. . . . .	287
Gallagher, J. G., Jr., see Kim, D. M., et al. . . . .	413
Gambarini, G., see Bertolaccini, M., et al. . . . .	203
Garside, B. K., see Reid, J., et al. . . . .	349
Gasparrini, G., see Fiorito, G., et al. . . . .	105
Głowczewski, P., see Radzewicz, Cz., et al. . . . .	423
Gorokhov, Yu. A., see Baranov, V. Yu., et al. . . . .	317
Grasiuk, A. Z., Zubarev, I. G.: High-Power Tun- able IR Raman Lasers . . . . .	211
Grasiuk, A. Z., see Baranov, V. Yu., et al. . . . .	317
Guyse, J. van, Nandedkar, R. V., Stals, L., Deruytter, A.: Blistering of Rhenium Irradi- ated with 21 keV Helium Ions . . . . .	89
Gwinner, D., see Böhm, K. . . . .	155
Hagen, W., Strunk, H.: A New Type of Source Generating Misfit Dislocations . . . . .	85
Haller, U., Herold, W., Ohnsorge, H.: Problems Arising in the Development of Optical Com- munication Systems . . . . .	115
Hattendorff, H.-D., see Lenth, W., et al. . . . .	367
Herold, W., see Haller, U., et al. . . . .	115
Herrmann, W., see Urban, W. . . . .	325
Herrmann, W., see Pohl, D. W., et al. . . . .	361
Heudorfer, W., Marowsky, G.: Threshold Singu- larities of Optically Pumped Dye Lasers . . . . .	181
Hisano, K., see Toda, K., et al. . . . .	207
Hohenstatt, M., see Neuhauser, W., et al. . . . .	123
Hou, M., Robinson, M. T.: Mechanisms for the Reflection of Light Atoms from Crystal Sur- faces at Kilovolt Energies . . . . .	295
Hou, M., Robinson, M. T.: The Conditions for Total Reflection of Low-Energy Atoms from Crystal Surfaces . . . . .	371
Huber, G., see Lenth, W., et al. . . . .	367
Irniger, V., see Pohl, D. W., et al. . . . .	361

Karpenko, S.G., Marchevskii, F.N., Strizhevskii, V.L.: Nonstationary Intracavity Stimulated Raman Scattering by Polaritons . . . . .	393
Kasuya, T., Suzuki, T., Shimoda, K.: A Prism Anamorphic System for Gaussian Beam Expander . . . . .	131
Kazakov, S.A., see Baranov, V.Yu., et al. . . . .	317
Kazerouni, K.E., see Wagendristel, A., et al. . . . .	173
Khan, H.R., see Finlayson, T.R. . . . .	165
Kim, D.M., Gallagher, J.G., Jr., Rabson, T.A., Tittel, F.K.: Intensity Enhanced Bulk Photo-voltaic Effects in $\text{LiNbO}_3\text{:Fe}$ . . . . .	413
Kim, J.K., see Anderson, W.A. . . . .	401
Klingbeil, U., Kowalski, J., Träger, F., Wiegemann, H.B., Putlitz, G.: Saturation-Dips in the Weak Calcium Intercombination Line . . . . .	199
Knyazev, I.N., Kudriavtzev, Yu.A., Kuzmina, N.P., Letokhov, V.S., Sarkisian, A.A.: Laser Isotope Separation of Carbon by Multiple IR Photon and Subsequent UV Excitation of $\text{CF}_3\text{I}$ Molecules . . . . .	427
Kowalski, J., see Klingbeil, U., et al. . . . .	199
Krasiński, J., see Radzewicz, Cz., et al. . . . .	423
Kudriavtzev, Yu.A., see Knyazev, I.N., et al. . . . .	427
Kuphal, E., Schlachetzki, A., Pöcker, A.: Incorporation of Sn into Epitaxial GaAs Grown from the Liquid Phase . . . . .	63
Kurowski, P., Wagner, J., Martienssen, W.: Nachweis schwacher Phasenmodulationen von Lichtbündeln . . . . .	343
Kuzmina, N.P., see Knyazev, I.N., et al. . . . .	427
Lenstra, D.: Polarization Properties of a Single-Mode Gas Laser in Transverse Magnetic Fields . . . . .	257
Lenth, W., Hattendorff, H.-D., Huber, G., Lutz, F.: Quasi-cw Laser Action in $\text{K}_2\text{Nd}(\text{MoO}_4)_4$ . . . . .	367
Letokhov, V.S., see Baranov, V.Yu., et al. . . . .	317
Letokhov, V.S., see Knyazev, I.N., et al. . . . .	427
Letokhov, V.S., Minogin, V.G.: Trapping and Storage of Atoms in a Laser Field . . . . .	99
Leviatan, Y., see Raz, S. . . . .	275
Llabres, J., see Lora-Tamayo, A., et al. . . . .	79
Logunov, O.A., see Zuev, V.S., et al. . . . .	321
Lora-Tamayo, A., Dominguez, E., Lora-Tamayo, E., Llabres, J.: A New Model of the Thermal Growth of a Silicon Dioxide Layer . . . . .	79
Lora-Tamayo, E., see Lora-Tamayo, A., et al. . . . .	79
Lutz, F., see Lenth, W., et al. . . . .	367
Marchevskii, F.N., see Karpenko, S.G., et al. . . . .	393
Marowsky, G., see Heudorfer, W. . . . .	181
Martienssen, W., see Kurowski, P., et al. . . . .	343
Mashev, L.: Mode Dispersion Characteristics of Graded-Index Optical Waveguides . . . . .	189
Mataré, H.F., Wolff, G.A.: Concentration Enhancement of Current Density and Diffusion Length in III-V Ternary Compound Solar Cells . . . . .	335
Mattar, F.P.: Transient Propagation of Optical Beams in Active Media . . . . .	53
Meier, G., see Schad, Hp., et al. . . . .	177
Meinköhn, D.: A Response Function Characterization of the Thermal State of Plastic Samples in Dynamic Testing . . . . .	377
Minogin, V.G., see Letokhov, V.S. . . . .	99
Molin, Yu.N., see Vizhin, V.V., et al. . . . .	385
Muuss, H., Skolaut, W.: Continuous 250 Watt Argon Ion Laser . . . . .	417
Nagy, D.L.: Deformation Induced Texture in Mössbauer Absorbers . . . . .	269
Nandedkar, R.V., see Guyse, J. van, et al. . . . .	89
Nayyar, V.P., Soni, V.S.: Self-Focusing of Elliptically Shaped High-Power Laser Beams in a Fully Ionized Plasma . . . . .	73
Neuhauser, W., Hohenstatt, M., Toschek, P.E., Dehmelt, H.G.: Visual Observation and Optical Cooling of Electrodynamically Contained Ions . . . . .	123
New, G.H.C.: Theory of Multiple-Pass Two-Photon Doppler-Free Spectroscopy . . . . .	355
Ohnsorge, H., see Haller, U., et al. . . . .	115
Ohtsubo, J., Asakura, T.: Statistical Properties of the Sum of Partially-Developed, Correlated Speckle Patterns . . . . .	159
Oikawa, M., see Toda, K., et al. . . . .	207
Petrov, A.K., see Vizhin, V.V., et al. . . . .	385
Pis'menny, V.D., see Baranov, V.Yu., et al. . . . .	317
Pöcker, A., see Kuphal, E., et al. . . . .	63
Pohl, D.W., Irniger, V., Herrmann, W.: Spectrophonic Humidity-Trace Detection in Hydrogen and Air . . . . .	361
Putlitz, G. zu, see Klingbeil, U., et al. . . . .	199
Rabenau, A., see Chen Li-chuan, et al. . . . .	233
Rabson, T.A., see Kim, D.M., et al. . . . .	413
Radzewicz, Cz., Głowczewski, P., Krasiński, J.: High Efficient System for Studying Multiphoton Absorption . . . . .	423
Raz, S., Leviatan, Y.: Focusing and Beam Shifting Properties of Fabry-Perot Type Interferometers . . . . .	275
Reid, J., Shewchun, J., Garside, B.K.: Measurement of the Transition Strength of the $00^2$ $9.4\text{ }\mu\text{m}$ Sequence Band in $\text{CO}_2$ Using a Tunable Diode Laser . . . . .	349
Reif, W., see Schuöcker, D. . . . .	405
Riccius, H.D.: Improved Metal-Insulator-Metal Point-Contact Diodes for Harmonic Generation and Mixing . . . . .	49
Rimini, E., see Vitali, G., et al. . . . .	111

Robinson, M.T., see Hou, M. . . . .	295
Robinson, M.T., see Hou, M. . . . .	371
Saikan, S.: Nitrogen-Laser-Pumped Single-Mode Dye Laser . . . . .	41
Salomaa, R., Stenholm, S.: Yield Optimisation Aspects in Two-Photon Excitation . . . . .	309
Sarkisian, A.A., see Knyazev, I.N., et al. . . . .	427
Savinov, Yu.V., see Zuev, V.S., et al. . . . .	321
Schad, Hp., Baur, G., Meier, G.: Investigation of Electric Field Induced Elastic Deformations of Nematic Liquid Crystals by Capacity Measurements . . . . .	177
Schlachetzki, A., see Kuphal, E., et al. . . . .	63
Schmidt, C.: Photoconductivity and Hall-Effect of Iron-Diffused Silicon . . . . .	137
Schneider, W., Behler, K.: Applications of Photoconductivity Measurements in n-InSb under Crossed Fields . . . . .	249
Schüöcker, D., Reif, W.: High-Frequency Discharge Stability of Waveguide He-Ne Lasers . . . . .	405
Schütz, G., see Steyerl, A. . . . .	45
Seshadri, S.R.: Asymmetric First-Order Bragg Interactions in an Active Dielectric Waveguide . . . . .	141
Shewchun, J., see Reid, J., et al. . . . .	349
Shimoda, K., see Kasuya, T., et al. . . . .	131
Shyam, A., Srinivasan, M.: Neutron Emission from a 100 Joule Plasma Focus . . . . .	425
Skolaut, W., see Muuss, H. . . . .	417
Soni, V.S., see Nayyar, V.P. . . . .	73
Sorokin, A.R., see Vizhin, V.V., et al. . . . .	385
Srinivasan, M., see Shyam, A. . . . .	425
Stals, L., see Guyse, J. van, et al. . . . .	89
Starodubtsev, A.I., see Baranov, V.Yu., et al. . . . .	317
Startsev, A.V., see Zuev, V.S., et al. . . . .	321
Steen, W.M., see Courtney, C. . . . .	303
Stenholm, S., see Salomaa, R. . . . .	309
Stert, V., Fischer, R.: Doppler-Free Polarization Spectroscopy Using Linear Polarized Light . . . . .	151
Steyerl, A., Schütz, G.: Zone Mirror for Image Formation with Neutrons . . . . .	45
Stoilov, Yu. Yu., see Zuev, V.S., et al. . . . .	321
Strizhevskii, V.L., see Karpenko, S.G., et al. . . . .	393
Strunk, H., see Hagen, W. . . . .	85
Suzuki, T., see Kasuya, T., et al. . . . .	131
Svelto, F., see Fiorito, G., et al. . . . .	105
Tamura, M., Yoshihiro, N., Tokuyama, T.: Outside Dislocations Generated from Phosphorus Implanted Silicon Layers . . . . .	31
Than, N., Anastasova, N.V., Burov, J.I.: Interference Acoustical Method for Measuring Velocity, Attenuation and Reflection of Acoustic Surface Waves . . . . .	331
Tittel, F.K., see Kim, D.M., et al. . . . .	413
Toda, K., Oikawa, M., Hisano, K.: Photovoltaic Effect in Thin Film of Pb(Zr, Ti)O <sub>3</sub> Evaporated on Stainless Steel . . . . .	207
Tokuyama, T., see Tamura, M., et al. . . . .	31
Toschek, P.E., see Neuhauser, W., et al. . . . .	123
Träger, F., see Klingbeil, U., et al. . . . .	199
Urban, W., Herrmann, W.: "Zeeman Modulation Spectroscopy" with Spin-Flip Raman Laser . . . . .	325
Vasil'yev, B.I., see Baranov, V.Yu., et al. . . . .	317
Velikhov, E. P., see Baranov, V.Yu., et al. . . . .	317
Vincent, P.: Singularity Expansions for Cylinders of Finite Conductivity . . . . .	239
Vitali, G., Bertolotti, M., Foti, G., Rimini, E.: Laser Induced Single-Crystal Transition in Polycrystalline Silicon . . . . .	111
Vizhin, V.V., Molin, Yu.N., Petrov, A.R., Sorokin, A.R.: Investigations of Multiphoton Selective Dissociation of (CH <sub>3</sub> ) <sub>2</sub> O in the Field of a Pulsed CO <sub>2</sub> Laser . . . . .	385
Wagendristel, A., Bangert, H., Kazerouni, K.E., Dilmaghani, S.B.: Low Temperature Diffusion in Thin-Film Couples of Polycrystalline Silver and Gold . . . . .	173
Wagner, J., see Kurowski, P., et al. . . . .	343
Weppner, W., see Chen Li-chuan, et al. . . . .	233
Wiegemann, H.B., see Klingbeil, U., et al. . . . .	199
Wolff, G.A., see Mataré, H.F. . . . .	335
Yoshihiro, N., see Tamura, M., et al. . . . .	31
Zappa, L., see Bertolaccini, M., et al. . . . .	203
Zubarev, I.G., see Grasiuk, A.Z. . . . .	211
Zuev, V.S., Logunov, O.A., Savinov, Yu.V., Startsev, A.V., Stoilov, Yu.Yu.: Optically Excited P-Quaterphenyl Vapour Laser . . . . .	321

## Erratum

Grave, T., Wurz, H., Schneider, W., Hübner, K.: Theory of the Photon-Drag Effect in p-Type Germanium with a Parabolic and Anisotropic Band-Structure Approximation . . . . .	114
Hübner, K., see Grave, T., et al. . . . .	114
Schneider, W., see Grave, T., et al. . . . .	114
Wurz, H., see Grave, T., et al. . . . .	114

Indexed in Current Contents